MAY 1 5 2007



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INTELLECTUAL PROPERTY LAW

FACSIMILE

May 15, 2007

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Serial No. 10/663,907

Number of Pages (including this cover sheet):

7

Comments:

Attached are the Topics for Interview for the subject patent application.

Whitham Curtis Christoff

11:57:16 a.m.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Ying Tat Leung

Confirmation No.: 2648

Serial No. 10/663,907

Group Art Unit: 2161

Filed: 09/17/2003

Examiner: Chen, Te Y

For: DIAGNOSIS OF EQUIPMENT FAILURES USING AN INTEGRATED

APPROACH OF CASE BASED REASONING AND RELIABILITY ANALYSIS

TOPICS FOR INTERVIEW

Sir:

Applicants' undersigned counsel appreciates the Examiner's courtesy in agreeing to a scheduled telephonic interview with the undersigned response at 3:00 PM EDT May 16, 2007. The proposed amended claims are attached.

- The claim 1 invention is a method receiving an equipment failure report and, in response, generating a list of the most likely failed components based on a combination of two probability calculations –
 - a. a statistical reliability probability, which is simply the conditional probability, for each component of an equipment, of the component having a failed state given an equipment failure; and
 - a case based probability, which matches description fields of the equipment failure report against the description fields of past records of equipment failure reports.
- 2. The proposed amended claim 1 explicitly identifies "component" as "hardware-based," thereby removing the basis for the Section 112 rejection.
- 3. Dahlquist (now U.S. Patent No. 7,213,174) teaches nothing of calculating probabilities of which components have failed based on a combination of: (a) statistical reliability probability and (b) case based failure probability.
- 4. Dahlquist, to the extent it can be understood, appears to teach a two stage diagnostic system which first classifies an event into a discrete class and then, after such classification, performs a "root cause" analysis. Dahlquist describes

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- the "root cause" analysis as having, in its array of options, a "Bayesian network" and a case-based reasoning. See Dahlquist, at column 7, lines 21-36, and at column 8, lines 6-16.
- Dahlquist discloses nothing of its "Bayesian network," or anything else,
 embodying the claim 1 statistical reliability-based component failure probability
 database.
- 6. Dahlquist discloses nothing of its "Bayesian network," or anything else, performing the claim 1 calculating, for each component of an equipment, the conditional probability of the component having a failed state given an equipment failure.
- 7. Dahlquist discloses nothing of the claim 1 receiving a failed equipment having a text description of a failure and matching the text description against the text description field of past equipment failure.
- 8. Dahlquist discloses nothing of the claim 1 diagnosing which components are most likely to have a failed state by combining the component's probability of failure based on statistical reliability and a case-based reasoning probability of the component having a failed state.
- 9. The claim 6 invention includes, in combination with other limitations, processor and database limitations corresponding to the method limitations of claim 1.

Respectfully solomitted

Reg. No. 35.37

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